

Abstract:

Method and Device for Determining the Vehicle Reference Speed and for Detecting an Incorrect Vehicle Reference Speed of an All-Wheel-Drive Vehicle

A method of determining the vehicle reference speed of an all-wheel-drive vehicle, wherein the vehicle reference speed is determined from one or more wheel speeds, includes the following steps: determination of a vehicle acceleration from the vehicle reference speed and/or from one or more wheel speeds, determination of a drive torque and/or measurement of the vehicle acceleration with a sensor, comparative analysis of the determined vehicle acceleration and the drive torque and/or the measured vehicle acceleration, and modification of the vehicle reference speed in dependence on the comparative analysis. In a method of detecting an incorrect vehicle reference speed of an all-wheel-drive vehicle, wherein the vehicle reference speed is determined from one or more wheel speeds and/or is extrapolated by way of given values, one or more wheels are decoupled from the drive, and the detection is effected with reference to the running behavior of the decoupled wheel(s).

(Figure 1)